PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 701039-54481	FOR FURTHER ACTION	See item 4 below	
International application No. PCT/US2005/000714	International filing date (day/month/year) 10 January 2005 (10.01.2005)	Priority date (day/month/year) 09 January 2004 (09.01.2004)	
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237			
Applicant CHILDREN'S MEDICAL CENTER COPORATION			

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 <i>bis</i> .1(a).			
2.	This REPORT consists of a total of 4 sheets, including this cover sheet.			
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.			
3.	3. This report contains indications relating to the following items:			
	Box No. I	Basis of the report		
	Box No. II	Priority		
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability		
	Box No. IV	Lack of unity of invention		
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
	Box No. VI	Certain documents cited		
	Box No. VII	Certain defects in the international application		
	Box No. VIII	Certain observations on the international application		
4.		ommunicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but makes an express request under Article 23(2), before the expiration of 30 months from the priority		

Date of issuance of this report 10 July 2006 (10.07.2006) Authorized officer The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Athina Nickitas-Etienne Facsimile No. +41 22 338 82 70 e-mail: pt04@wipo.int

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

From the INTERNAT	'IONAL SEARCI	HING AUTH	ORITY		REC'D 0 3 JUN 2005	
To: DAVID S. RESNICK NIXON PEABODY LLP		PCWPO PCT				
100 SUMMER STREET BOSTON, MA 02110-2131		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY				
			(PCT Rule 43bis.1)			
				Date of mailing (day/month/year)	01 JUN 2005	
Applicant'	s or agent's file re	eference		FOR FURTHER ACTION See paragraph 2 below		
701039-54	481 al application No	· · · · · · · · · · · · · · · · · · ·	International filing date			
PCT/US05		•	10 January 2005 (10.01.2			
		cation (IPC)	or both national classification		09 January 2004 (09.01.2004)	
	6/63, 64, 174; 530 00, 14/00, 16/00,		36, 387.1, 387.7, 387.9, 38	8.1 and US Cl.: GO1	N 1/00, 33/48; C07K 1/00, 14/00, 17/00; A61K	
1	N'S MEDICAL O	CENTER CO	RPORATION			
1. This o	pinion contains in	ndications rela	ating to the following item	s:	•	
	Box No. I	Basis of the opinion				
	Box No. II	Priority				
	Box No. III	Non-establi	shment of opinion with reg	gard to novelty, inver	ative step and industrial applicability	
	Box No. IV	Lack of uni	ty of invention			
	Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
	Box No. VI	Certain documents cited				
	Box No. VII	VII Certain defects in the international application				
	Box No. VIII	Certain obs	ervations on the internation	nal application		
2. FUR '	THER ACTIO	N				
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.						
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.						
For further options, see Form PCT/ISA/220.						
3. For further details, see notes to Form PCT/ISA/220.						
Name and mailing address of the ISA/ US				Authorized officer)		
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450				Alana M. Harrisch, Belle Jackson		
Alexandria, Virginia 22313-1450				Telephone No. 57	71-272-1600	

Facsimile No. (703) 305-3230 Form PCT/ISA/237 (cover sheet) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US05/00714

Box No. I Basis of this opinion		
1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.		
This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).		
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:		
a. type of material		
a sequence listing		
table(s) related to the sequence listing		
b. format of material		
in written format		
in computer readable form		
c. time of filing/furnishing		
contained in international application as filed.		
filed together with the international application in computer readable form.		
furnished subsequently to this Authority for the purposes of search.		
3. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.		
4. Additional comments:		
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US05/00714

Box No. V	Reasoned statement under	Rule 43 bis.1(a)(i) with	regard to novelty,	inventive step or industrial
	applicability: citations and	explanations supporting	g such statement	

1. Statement		
Novelty (N)	Claims 17-19	YES
	Claims 1-16	NO
Inventive step (IS)	Claims NONE	YES
	Claims <u>1-19</u>	NO
Industrial applicability (IA)	Claims 1-19	YES
	Claims NONE	NO

2. Citations and explanations:

Claims 1-16 lack novelty under PCT Article 33(2) as being anticipated by Roy et al. (The Journal of Biological Chemistry 279(49): 51323-51330, December 3, 2004). Roy teaches the detection of urinary ADAM 12 in samples from breast cancer patients and controls analyzed by immunoblot, see abstract. ADAM 12 protein levels were higher in urine from breast cancer patients than in control urine. Median levels of ADAM 12 in urine significantly increases with disease progression, see page 51324, column 1, first paragraph; bridging paragraph of pages 51325 and 51326; page 51329, column 2, first two sentences of last paragraph. Western blot analysis was conducted using labeled proteins and chemiluminescence, page 51324, column 2, Western...section.

Claims 17-19 lack an inventive step under PCT Article 33(3) as being obvious over Claims 1-16 lack novelty under PCT Article 33(2) as being anticipated by Roy et al. (The Journal of Biological Chemistry 279(49): 51323-51330, December 3, 2004). The teachings of Roy are presented above. Although Roy et al. does not teach a kit for detecting ADAM 12 in a urine sample comprising a container, at least one antibody and directions for use a scientist would have been inclined to package these components, as well as other reagents that would aid in cancer diagnosis for convenience.